



Renewable energy systems provide high efficiency. Brushless DC Motor Controllers from Orchid help save fossil fuels.



“Miniature Brushless DC Motor Controllers from Orchid makes wind powered systems more efficient.”

- Energy Management

Brushless DC Motor Controller

This low cost, miniature, brushless DC motor controller packs enormous power into a tiny electronics package. Designed to drive 48-Volt brushless DC motors up to 1400 watts, this miniature controller may be the smallest in its class. Small physical sizes make it possible to develop high torque and operating speeds when overall product size and weight are application limited.

Miniature Power Electronics

Orchid Technologies combined cost-sensitive engineering with precision power electronics to craft an efficient, high-performing, three-phase power-output stage. Working closely with silicon vendors, Orchid carefully selected FET output stage devices while perfectly matching drive and sensing technology characteristics.

ST Micro Electronics ST7MC Microcontroller

Orchid selected an ST7MC microcontroller as the brains of this brushless DC motor controller. The ST7MC's feature-rich complement of flash program store, static RAM, Eeprom, patented motor controller, timers, analog-to-digital conversion circuitry, and robust processor reliability controls make the ST7MC a perfect fit in the motor control marketplace. The ST7MC's patented motor control subsystem provides a highly cost effective method to control many different types of brushless DC motors. Sensor and sensorless motors, 120- and 60-degree styles are all supported.

Motor Control from Orchid Technologies

The development of custom electronics technology solutions for our OEM clients is Orchid's entire business. High-performance motion controller designs with rapid design cycles, demanding technical requirements, and unforgiving schedules set us apart. Call Orchid Technologies today. We'll put a custom motor controller product design in your hands tomorrow!

